

NFI provisional estimates for woodland within 100 miles of Sandwich

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Summary

This report provides a detailed picture of stocked area and the standing volume of timber for woodland within a 100 mile radius of Sandwich. These estimates are a subset of those published as part of the 2012 growing stock information presented in the National Forest Inventory (NFI) *50-year forecasts of softwood timber availability* and *50-year forecast of hardwood timber availability*. NFI reports are published at www.forestresearch.gov.uk.

In addition, the report provides forecasts of timber availability, for softwoods and hardwoods arising from the stocked area and standing volume. Forecasts are based on the 'headline' harvesting scenario described in the NFI 50-year forecast reports. Forecasting for broadleaved woodland in the Private sector is provided using a harvesting scenario which brings all Private sector broadleaved woodland into production.

The estimates provided in this report are provisional in nature.



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Approach

The approach taken in the derivation of these results and to be used in their interpretation is described in the full suite of forecast reports which can be found at www.forestresearch.gov.uk/forecast. Refer to the *Standing timber volume in coniferous trees in Britain* (2012) and the *NFI preliminary estimates of quantities of broadleaved species in British Woodlands with special focus on ash* (2014) reports for a description of the underlying methodologies and interpretation, and also for the England and GB context. Refer to the *NFI forecasts methodology overview* (2012) report for a detailed description and discussion of forecasting future availability of timber from NFI field survey data and from information in the Forestry Commission's sub-compartment database (SCDB). The wider context of forecasts of timber production from woodland in Great Britain and its constituent countries under a range of harvesting scenarios can be found in the *50-year forecast of softwood timber availability* (2014) and the *50-year forecast of hardwood timber availability* (2014). The biomass is described in *Estimate of biomass in live woodland trees*, (2011) (www.forestresearch.gov.uk/forecast).

The estimates reported here are based upon field samples assessed between October 2009 and August 2013, the results of which have been subjected to rigorous data quality assurance procedures. These field samples constitute approximately two thirds of the sites to be sampled within the first cycle of NFI field sampling. As a consequence, the estimates in this report are classed as provisional.

Results

The results presented in this report are estimates of stocked areas and standing volumes at 31 March 2012, and 25-year forecasts of softwood and hardwood availability under the 'headline' harvesting scenario and modified to assume that all hardwoods are harvested in woodland within 100 miles of Sandwich. The data sources used for the compilation of these estimates are the same as described in the National Forest Inventory reports *Standing timber volume for coniferous trees in Britain* (2012), the *50-year forecast of softwood availability* (2014) and the *50-year forecast of hardwood availability* (2014). Estimates for the Forestry Commission (FC) estate are derived from their sub-compartment database, while those for the private sector (i.e. non-FC in England) estate are derived from information collected in the NFI field survey. A fuller description of these data sources and how they are used in the production of estimates, including sampling standard errors attached to the private sector estimates, is provided in the earlier documents.

The Private sector forecast in this report represents the potential availability of timber under the assumption of harvesting to maximise timber production. The actual levels of timber that will be produced will vary from the results reported here as production

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depends on the harvesting choices made by forest and woodland owners who are unlikely to consistently choose to maximise production over the forecast period.

Results are provided for:

- stocked area at 31 March 2012 (**Figures 1 – 3** and **Tables 1 – 3**)
- felled area (**Table 4**)
- standing volume at 31 March 2012 (**Figures 4 – 6** and **Tables 5 – 7**)
- above ground biomass stocks at 31 March 2012 (**Figures 7 – 9** and **Table 8**)
- the 25-year timber forecast (**Figures 10 – 13** and **Tables 9 – 10**)
- the 25-year biomass forecast (**Table 11**)

The values in the tables have been independently rounded, so may not add to the totals shown. In some breakdowns of Private sector estimates, the estimates in the body of the table may not sum to the quoted total because each individual value, including the total, has been independently generated by the estimation procedure used for results from the NFI sample survey. Sampling standard errors (SE) attached to Private sector estimates are expressed in relative terms (%) to the right of the relevant estimate.

Where the standard error is high this indicates that the estimate should be interpreted with a degree of caution. Any estimate with a relatively large standard error is shown in **amber** in the tables.

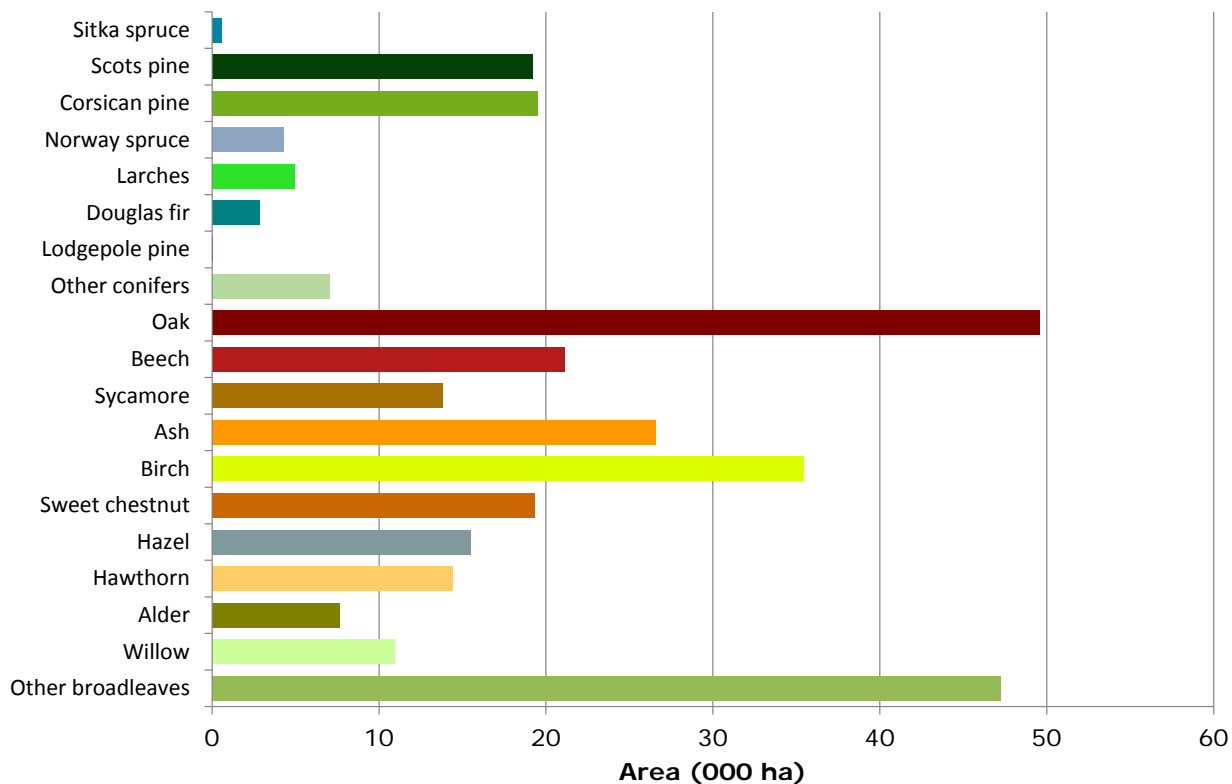
These standard errors depend on the combination of a number of factors but broadly:

- The more woodland that is within the area of interest the more samples that will have been selected, generally leading to lower standard errors
- Increasing the number of categories and sub-categories used (e.g. conifers and broadleaves then sub-divided into species groupings) will result in higher standard errors, especially for the categories that occur less frequently such as minor species
- More variability will also result in higher standard errors; for instance if a species is usually more evenly stocked when compared with another then its standard error will tend to be lower than the latter species.

In this report, for the 100 mile radius, for some of the variables reported, the categories have been pooled into broader categories to produce figures with more acceptable standard errors.

Stocked area at 31 March 2012

Figure 1 Principal tree species composition by stocked area at 31 March 2012



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Figure 2 Principal conifer tree species composition by stocked area at 31 March 2012

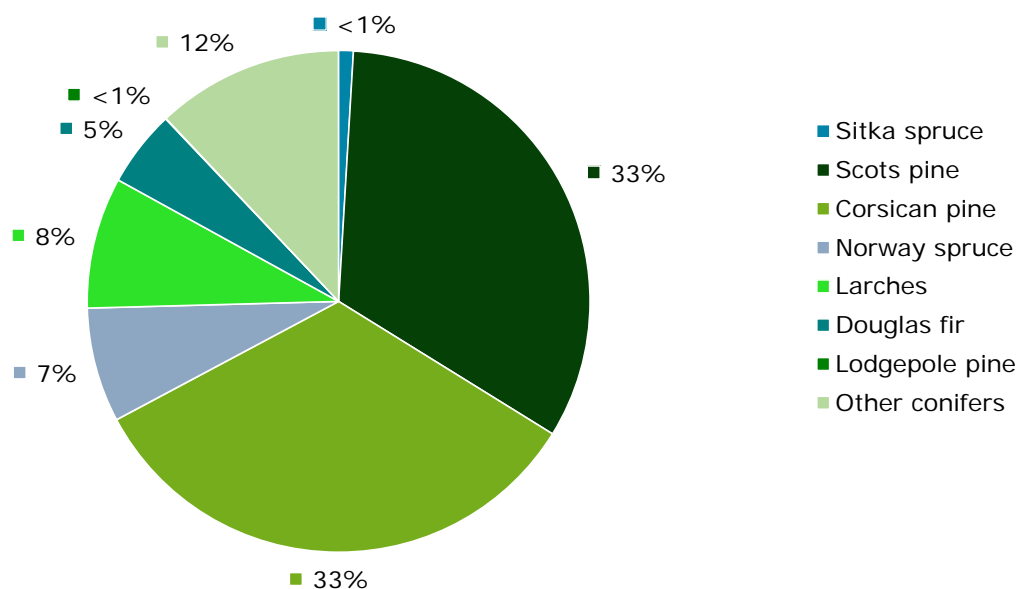
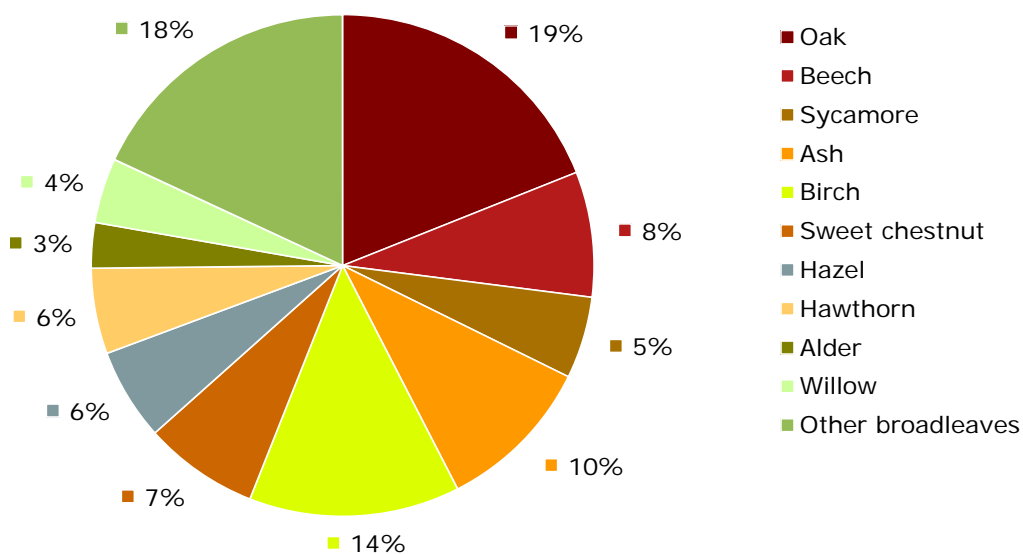


Figure 3 Principal broadleaved tree species by stocked area as at 31 March 2012



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Table 1 Stocked area by principal tree species at 31 March 2012

Principal species	FC	Private sector		Total
	area (000 ha)	area (000 ha)	SE%	area (000 ha)
Conifers				
Sitka spruce	< 0.1	0.5	44	0.5
Scots pine	4.2	15.0	8	19.2
Corsican pine	14.7	4.8	15	19.5
Norway spruce	0.5	3.8	15	4.3
Larches	0.6	4.3	13	4.9
Douglas fir	1.0	1.9	21	2.9
Lodgepole pine	< 0.1	0.0	-	< 0.1
Other conifers	0.8	6.2	12	7.0
All conifers	21.8	36.5	4	58.4
Broadleaves				
Oak	2.0	47.5	5	49.6
Beech	3.9	17.2	8	21.1
Sycamore	0.3	13.5	10	13.8
Ash	0.5	26.1	6	26.5
Birch	1.5	33.9	6	35.4
Sweet chestnut	0.2	19.1	9	19.3
Hazel	< 0.1	15.5	8	15.5
Hawthorn	< 0.1	14.4	9	14.4
Alder	0.1	7.5	15	7.6
Willow	< 0.1	10.9	11	10.9
Other broadleaves	2.1	45.1	5	47.2
All broadleaves	10.7	251.1	1	261.8
All species				
All species	32.5	287.6	1	320.1

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Table 2 Stocked area by age class at 31 March 2012

Age class	FC	Private sector		Total
	area (000 ha)	area (000 ha)	SE%	area (000 ha)
All conifers				
0–10 years	1.8	1.0	36	2.8
11–20 years	4.0	0.9	30	4.8
21–40 years	7.8	11.0	9	18.8
41–60 years	5.2	18.8	7	24.0
61–80 years	1.5	3.6	17	5.1
81–100 years	1.4	0.9	32	2.3
100+ years	0.1	0.4	38	0.6
Total	21.8	36.5	4	58.4
All broadleaves				
0–10 years	0.4	23.9	7	24.3
11–20 years	0.8	24.9	7	25.7
21–40 years	1.2	76.8	4	78.0
41–60 years	3.4	45.3	5	48.7
61–80 years	3.1	37.4	6	40.5
81–100 years	0.9	28.9	7	29.8
100+ years	0.8	13.9	10	14.7
Total	10.7	251.1	1	261.8
All species				
0–10 years	2.2	24.9	7	27.1
11–20 years	4.8	25.8	7	30.5
21–40 years	9.1	87.8	3	96.8
41–60 years	8.6	64.1	4	72.7
61–80 years	4.5	40.9	5	45.5
81–100 years	2.4	29.8	7	32.1
100+ years	1.0	14.3	10	15.3
Total	32.5	287.6	1	320.1

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Table 3 Stocked area by mean stand dbh class at 31 March 2012

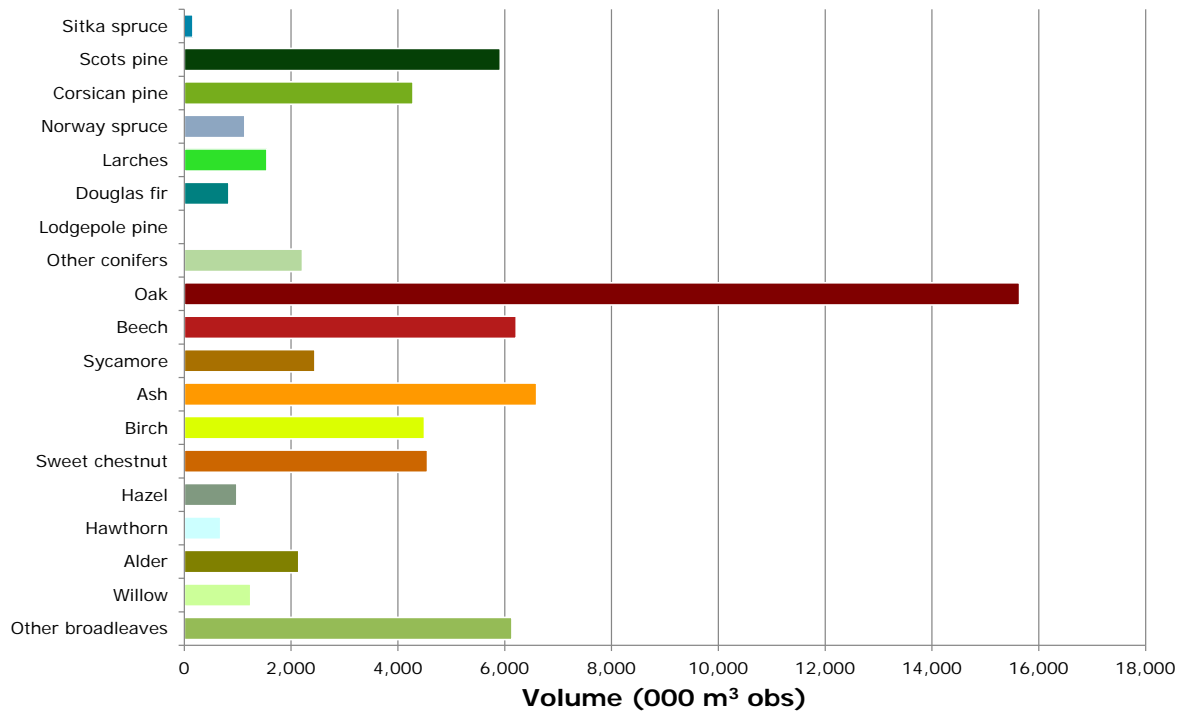
Mean stand DBH	FC	Private sector		Total
	area (000 ha)	area (000 ha)	SE%	area (000 ha)
All conifers				
0–7 cm	2.2	0.9	31	3.1
7–10 cm	0.8	1.3	22	2.1
10–15 cm	4.7	2.2	19	7.0
15–20 cm	3.8	5.1	13	9.0
20–30 cm	4.2	10.1	9	14.3
30–40 cm	3.0	9.9	10	12.9
40–60 cm	2.8	5.7	12	8.5
60–80 cm	0.3	0.9	35	1.2
80+ cm	< 0.1	0.4	42	0.4
Total	21.8	36.5	4	58.4
All broadleaves				
0–7 cm	0.8	30.4	7	31.2
7–10 cm	1.4	43.8	4	45.2
10–15 cm	1.2	40.4	5	41.6
15–20 cm	1.5	25.8	6	27.3
20–30 cm	3.6	37.5	5	41.1
30–40 cm	1.6	27.3	6	28.9
40–60 cm	0.5	29.2	6	29.7
60–80 cm	< 0.1	9.4	11	9.5
80+ cm	< 0.1	7.3	15	7.3
Total	10.7	251.1	1	261.8
All species				
0–7 cm	3.0	31.3	7	34.2
7–10 cm	2.2	45.1	4	47.3
10–15 cm	6.0	42.6	5	48.5
15–20 cm	5.3	31.0	5	36.3
20–30 cm	7.8	47.6	4	55.4
30–40 cm	4.6	37.2	5	41.8
40–60 cm	3.3	34.8	6	38.1
60–80 cm	0.4	10.3	11	10.7
80+ cm	< 0.1	7.7	15	7.7
Total	32.5	287.6	1	320.1

Table 4 Felled area at 31 March 2012

Clearfelled area	FC	Private sector		Total
	area (000 ha)	area (000 ha)	SE%	area (000 ha)
	< 0.1	2.8	23	2.8

Standing volume at 31 March 2012

Figure 4 Principal tree species composition by standing volume at 31 March 2012



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Figure 5 Principal conifer tree species composition by standing volume at 31 March 2012

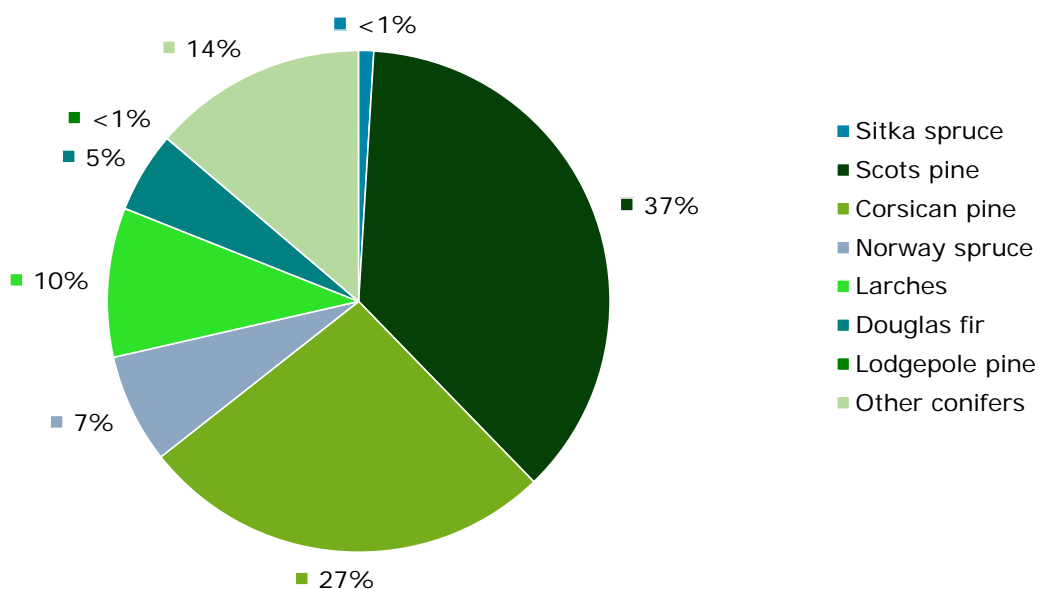
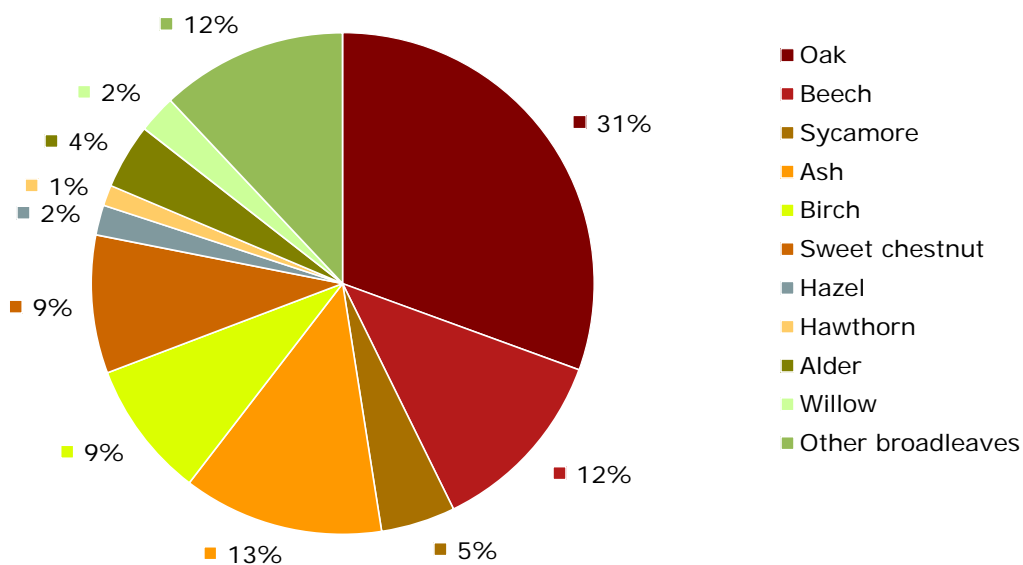


Figure 6 Principal broadleaved tree species composition by standing volume at 31 March 2012



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Table 5 Standing volume by principal tree species at 31 March 2012

Principal species	FC	Private sector		Total
	volume (000 m ³ obs)	volume (000 m ³ obs)	SE%	volume (000 m ³ obs)
Conifers				
Sitka spruce	< 1	156	44	157
Scots pine	962	4,955	9	5,916
Corsican pine	2,578	1,706	16	4,284
Norway spruce	133	1,001	17	1,134
Larches	92	1,454	14	1,546
Douglas fir	182	653	21	835
Lodgepole pine	3	0	-	3
Other conifers	280	1,933	17	2,213
All conifers	4,230	11,827	5	16,057
Broadleaves				
Oak	320	15,321	6	15,641
Beech	692	5,525	12	6,217
Sycamore	31	2,417	14	2,448
Ash	71	6,528	9	6,599
Birch	125	4,373	7	4,499
Sweet chestnut	24	4,532	11	4,555
Hazel	4	983	10	987
Hawthorn	< 1	681	12	682
Alder	18	2,126	17	2,145
Willow	< 1	1,244	15	1,245
Other broadleaves	210	5,924	9	6,135
All broadleaves	1,497	49,638	3	51,135
All species				
All species	5,727	61,428	2	67,156

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Table 6 Standing volume by age class at 31 March 2012

Age class	FC	Private sector		Total
	volume (000 m ³ obs)	volume (000 m ³ obs)	SE%	volume (000 m ³ obs)
All conifers				
0–10 years	< 1	2	69	2
11–20 years	234	54	40	288
21–40 years	1,344	2,729	11	4,073
41–60 years	1,572	6,486	8	8,058
61–80 years	504	1,848	19	2,352
81–100 years	515	434	43	949
100+ years	61	273	37	334
Total	4,230	11,827	5	16,057
All broadleaves				
0–10 years	< 1	31	35	31
11–20 years	10	834	10	844
21–40 years	63	9,068	5	9,131
41–60 years	485	9,669	6	10,154
61–80 years	564	11,687	7	12,251
81–100 years	170	11,582	7	11,752
100+ years	205	6,766	12	6,971
Total	1,497	49,638	3	51,135
All species				
0–10 years	< 1	34	33	34
11–20 years	244	889	10	1,133
21–40 years	1,407	11,807	5	13,213
41–60 years	2,057	16,164	5	18,221
61–80 years	1,068	13,475	6	14,543
81–100 years	685	12,020	7	12,704
100+ years	266	7,042	11	7,308
Total	5,727	61,428	2	67,156

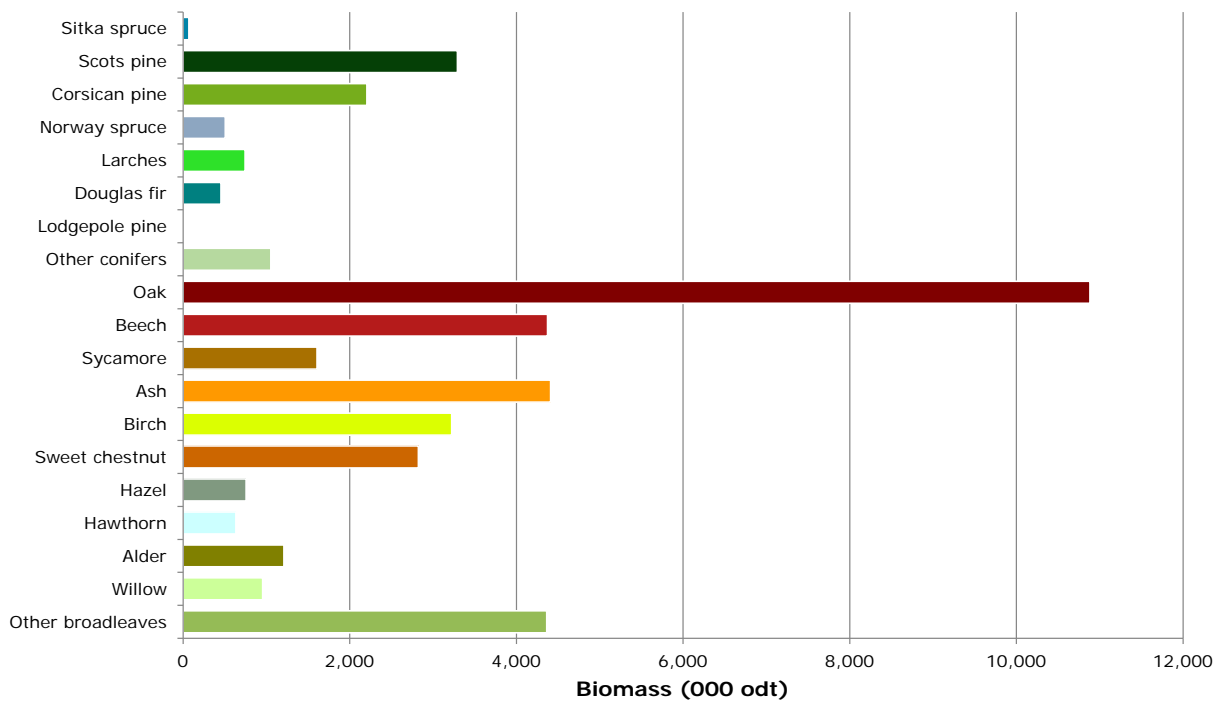
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Table 7 Standing volume by mean dbh class at 31 March 2012

Mean stand DBH	FC	Private sector		Total
	volume (000 m ³ obs)	volume (000 m ³ obs)	SE%	volume (000 m ³ obs)
All conifers				
0–7 cm	< 1	< 1	64	< 1
7–10 cm	13	35	27	48
10–15 cm	449	274	25	723
15–20 cm	664	1,179	15	1,843
20–30 cm	1,084	3,315	11	4,399
30–40 cm	917	3,505	10	4,422
40–60 cm	976	2,714	13	3,690
60–80 cm	122	479	30	601
80+ cm	4	326	37	330
Total	4,230	11,827	5	16,057
All broadleaves				
0–7 cm	4	134	12	139
7–10 cm	41	1,731	6	1,773
10–15 cm	166	4,578	6	4,745
15–20 cm	239	4,613	7	4,852
20–30 cm	607	8,988	6	9,595
30–40 cm	335	7,920	7	8,255
40–60 cm	91	11,041	7	11,132
60–80 cm	11	4,952	11	4,964
80+ cm	2	5,680	15	5,682
Total	1,497	49,638	3	51,135
All species				
0–7 cm	4	135	12	139
7–10 cm	54	1,766	6	1,821
10–15 cm	615	4,852	5	5,467
15–20 cm	903	5,797	7	6,701
20–30 cm	1,691	12,306	5	13,997
30–40 cm	1,253	11,430	6	12,683
40–60 cm	1,067	13,742	6	14,809
60–80 cm	133	5,391	10	5,525
80+ cm	6	6,009	15	6,015
Total	5,727	61,428	2	67,156

Above ground biomass at 31 March 2012

Figure 7 Principal tree species composition by above ground biomass at 31 March 2012



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Figure 8 Principal conifer tree species composition by above ground biomass at 31 March 2012

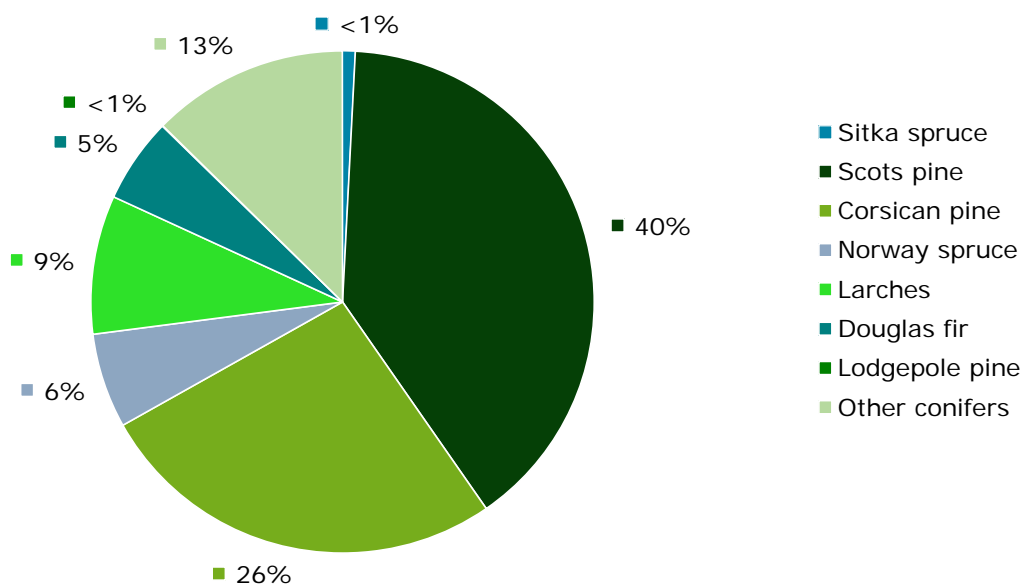
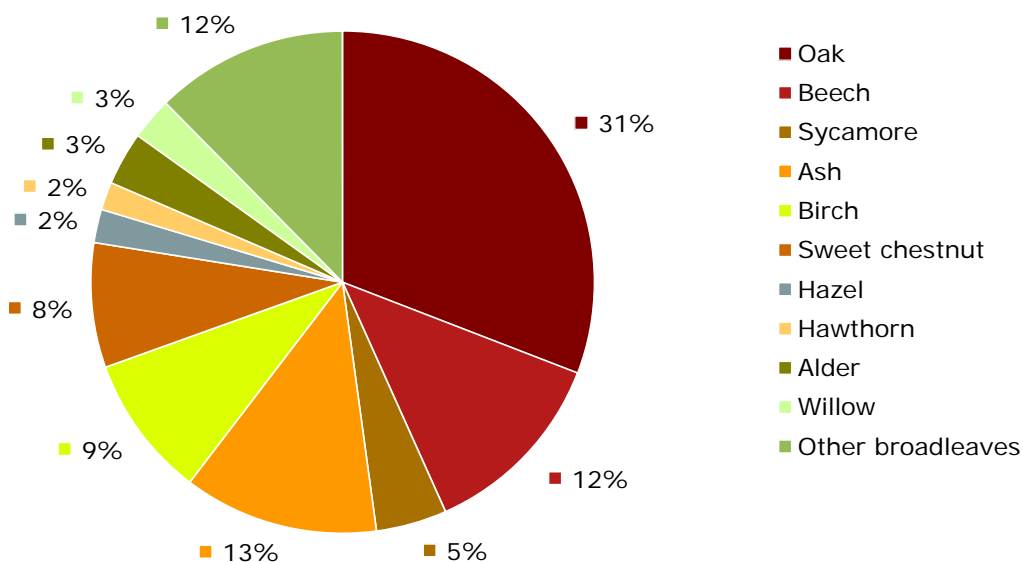


Figure 9 Principal broadleaved tree species composition by above ground biomass at 31 March 2012



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Table 8 Biomass stock (above ground) by principal tree species as at 31 March 2012

Principal species	FC	Private sector		Total
	biomass (000 odt)	biomass (000 odt)	SE%	biomass (000 odt)
Conifers				
Sitka spruce	< 1	68	44	68
Scots pine	548	2,743	9	3,291
Corsican pine	1,367	839	16	2,206
Norway spruce	61	446	17	507
Larches	48	695	14	743
Douglas fir	101	354	21	455
Lodgepole pine	2	0	-	2
Other conifers	125	928	16	1,053
All conifers	2,251	6,058	5	8,309
Broadleaves				
Oak	234	10,650	6	10,883
Beech	501	3,873	12	4,374
Sycamore	22	1,587	13	1,609
Ash	51	4,360	8	4,411
Birch	97	3,127	7	3,223
Sweet chestnut	17	2,808	11	2,825
Hazel	3	755	9	758
Hawthorn	< 1	634	11	634
Alder	11	1,199	17	1,210
Willow	< 1	955	14	955
Other broadleaves	143	4,220	8	4,363
All broadleaves	1,079	34,158	3	35,236
All species				
All species	3,330	40,195	2	43,525

25-year forecast of availability

Refer to the NFI report *50-year forecast of softwood timber availability (2014)* for a description of the underlying methodology and interpretation of the softwood forecast, and also for the England and GB context.

Refer to the NFI report *50-year forecast of hardwood timber availability (2014)* for a description of the underlying methodology and interpretation of the hardwood forecast, and also for the England and GB context.

In **Tables 9 – 11** and **Figures 10 – 13** the estimates for the Forestry Commission are based on harvesting regimes derived from their felling and thinning plans as of 31 March 2012.

For the Private sector, information for **Tables 9 – 11** and **Figures 10 – 13** is based on a scenario which assumes felling at age of maximum mean annual increment with moderate wind risk measures for conifers and broadleaves.

Restocking assumptions for conifer stands clearfelled during the forecast period have been implemented that provide for:

- a 10% reduction in the area of conifers on the subsequent rotation
- restocking of currently clearfelled land
- a change in the composition of conifer species on restocking

Restocking assumptions for broadleaved stands clearfelled during the forecast period have been included that provide for:

- No reduction in stocked area.
- Like for like species choices are used for broadleaves.
- That 50% of the land associated with the reduction in conifer stocked area arising from the assumption above is stocked with broadleaves.

A full description of the restocking assumptions is to be found in **Table D3** of the *50-year forecast of softwood timber availability (2014)*. The same restocking assumptions have been applied to both the FC and Private sector forecasts.

Woodland that is classed as currently clearfelled will be restocked according to the restock prescription.

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25-year forecast of timber availability

Table 9 25-year forecast of timber availability by time period and principal species; average annual volumes within period

Principal species	2017–21			2022–26			2027–31					
	FC	Private sector	Total	FC	Private sector	Total	FC	Private sector	Total			
	volume (000 m ³ obs)	SE%	volume (000 m ³ obs)	volume (000 m ³ obs)	SE%	volume (000 m ³ obs)	volume (000 m ³ obs)	SE%	volume (000 m ³ obs)			
All conifers	230	549	8	779	208	577	9	784	226	551	11	777
Sitka spruce	< 1	7	41	7	< 1	22	69	22	< 1	4	71	4
Scots pine	39	184	15	223	24	244	15	268	27	223	17	250
Corsican pine	163	93	26	256	164	122	31	285	169	97	34	266
Norway spruce	7	36	18	43	4	48	32	53	7	71	31	77
Larches	3	111	20	115	3	63	21	66	5	38	17	43
Douglas fir	7	33	31	40	5	20	25	25	10	37	45	47
Lodgepole pine	< 1	0	-	< 1	< 1	0	-	< 1	< 1	0	-	< 1
Other conifers	11	89	21	100	8	58	19	66	8	81	18	89
All broadleaves	36	2,250	4	2,286	3	1,368	4	1,371	35	1,271	6	1,307
Oak	6	145	18	151	< 1	154	13	154	5	356	15	361
Beech	24	114	23	137	1	129	21	130	24	123	23	147
Sycamore	< 1	223	14	224	< 1	85	15	85	< 1	52	22	53
Ash	1	572	9	573	< 1	209	11	209	1	97	17	98
Birch	1	437	8	438	< 1	227	9	228	1	157	12	159
Sweet chestnut	< 1	122	13	122	< 1	119	14	119	< 1	112	16	113
Hazel	< 1	66	12	66	< 1	89	15	89	< 1	65	17	65
Hawthorn	0	26	11	26	0	27	11	27	0	27	11	27
Alder	< 1	188	18	188	< 1	63	17	63	< 1	37	30	37
Willow	0	40	16	40	0	43	17	43	0	70	24	70
Other broadleaves	2	314	11	316	< 1	225	12	225	3	180	9	183
All species	266	2,797	3	3,063	211	1,945	4	2,156	262	1,822	5	2,083

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Table 9 (cont'd) 25-year forecast of timber availability by time period and principal species; average annual volumes within period

Principal species	2032–36			2037–41				
	FC	Private sector	Total	FC	Private sector	Total		
	volume (000 m ³ obs)	SE%	volume (000 m ³ obs)	volume (000 m ³ obs)	SE%	volume (000 m ³ obs)		
All conifers	234	578	12	813	254	582	12	837
Sitka spruce	2	12	28	15	3	10	19	13
Scots pine	24	289	17	313	32	301	18	333
Corsican pine	177	56	59	232	186	61	40	247
Norway spruce	8	87	33	94	6	64	27	70
Larches	5	36	18	41	6	31	34	37
Douglas fir	10	17	21	26	11	32	35	42
Lodgepole pine	< 1	0	-	< 1	< 1	< 1	23	< 1
Other conifers	9	82	38	91	11	82	40	93
All broadleaves	4	1,184	6	1,188	54	1,023	5	1,077
Oak	< 1	219	17	220	10	212	16	221
Beech	< 1	163	23	163	35	74	29	109
Sycamore	< 1	40	16	40	1	54	14	55
Ash	< 1	120	14	120	1	115	12	116
Birch	< 1	131	10	132	2	124	8	126
Sweet chestnut	< 1	196	22	196	< 1	83	11	83
Hazel	< 1	51	15	51	< 1	59	14	59
Hawthorn	0	28	10	28	0	37	17	37
Alder	< 1	31	20	31	< 1	29	18	29
Willow	0	47	21	47	0	64	19	64
Other broadleaves	< 1	157	8	158	4	168	8	172
All species	238	1,762	6	2,001	308	1,607	5	1,915

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Table 10 25-year forecast of timber availability by period, top-diameter class and conifer or broadleaves

Top diameter class (cm)	2017–21			2022–26			2027–31			2032–36			2037–41		
	FC	Private sector		FC	Private sector		FC	Private sector		FC	Private sector		FC	Private sector	
	(000 m ³)	(000 m ³)	SE%	(000 m ³)	(000 m ³)	SE%	(000 m ³)	(000 m ³)	SE%	(000 m ³)	(000 m ³)	SE%	(000 m ³)	(000 m ³)	SE%
All conifers															
7–14	62	50	9	39	37	9	25	30	11	22	34	10	26	47	10
14–16	16	26	10	18	19	10	14	15	13	11	13	11	10	14	11
16–18	15	32	10	18	25	10	18	19	14	15	17	13	13	15	12
18–24	39	120	9	52	113	10	66	96	14	69	88	15	65	77	15
24–34	50	161	10	49	188	11	65	178	12	78	197	14	92	185	14
34–44	25	78	12	17	96	13	21	97	13	22	112	14	28	113	14
44–54	13	37	14	8	48	15	9	48	14	8	56	16	9	57	16
54+	10	46	17	5	52	18	8	67	21	9	60	19	12	74	18
Total	230	549	8	208	577	9	226	551	11	234	578	12	254	582	12

Top diameter class (cm)	2017–21			2022–26			2027–31			2032–36			2037–41		
	FC	Private sector		FC	Private sector		FC	Private sector		FC	Private sector		FC	Private sector	
	(000 m ³)	(000 m ³)	SE%	(000 m ³)	(000 m ³)	SE%	(000 m ³)	(000 m ³)	SE%	(000 m ³)	(000 m ³)	SE%	(000 m ³)	(000 m ³)	SE%
All broadleaves															
7–14	10	482	3	1	394	4	6	356	4	2	370	4	10	395	3
14–16	3	131	4	< 1	95	6	2	79	6	< 1	66	5	4	67	4
16–18	3	138	4	< 1	90	5	3	76	6	< 1	62	6	4	62	5
18–24	10	454	5	< 1	248	5	10	213	6	< 1	169	6	14	165	6
24–34	8	571	5	< 1	272	6	11	247	9	< 1	202	9	15	168	9
34–44	2	254	7	< 1	126	9	3	132	11	< 1	116	12	5	79	13
44–54	< 1	118	9	< 1	62	11	< 1	69	13	< 1	61	14	1	39	16
54+	< 1	98	13	< 1	80	14	< 1	100	20	< 1	137	23	< 1	47	22
Total	36	2,250	4	3	1,368	4	35	1,271	6	4	1,184	6	54	1,023	5

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Figure 10 Overview of 25-year forecast of average annual softwood availability

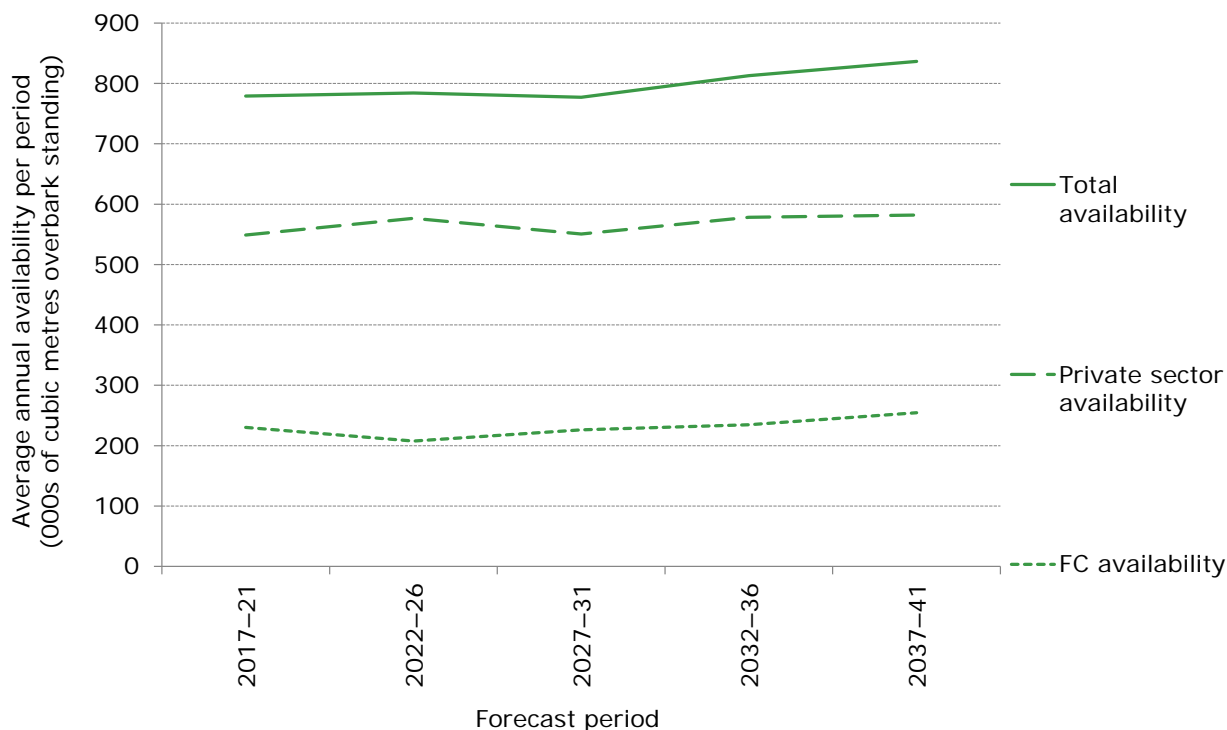
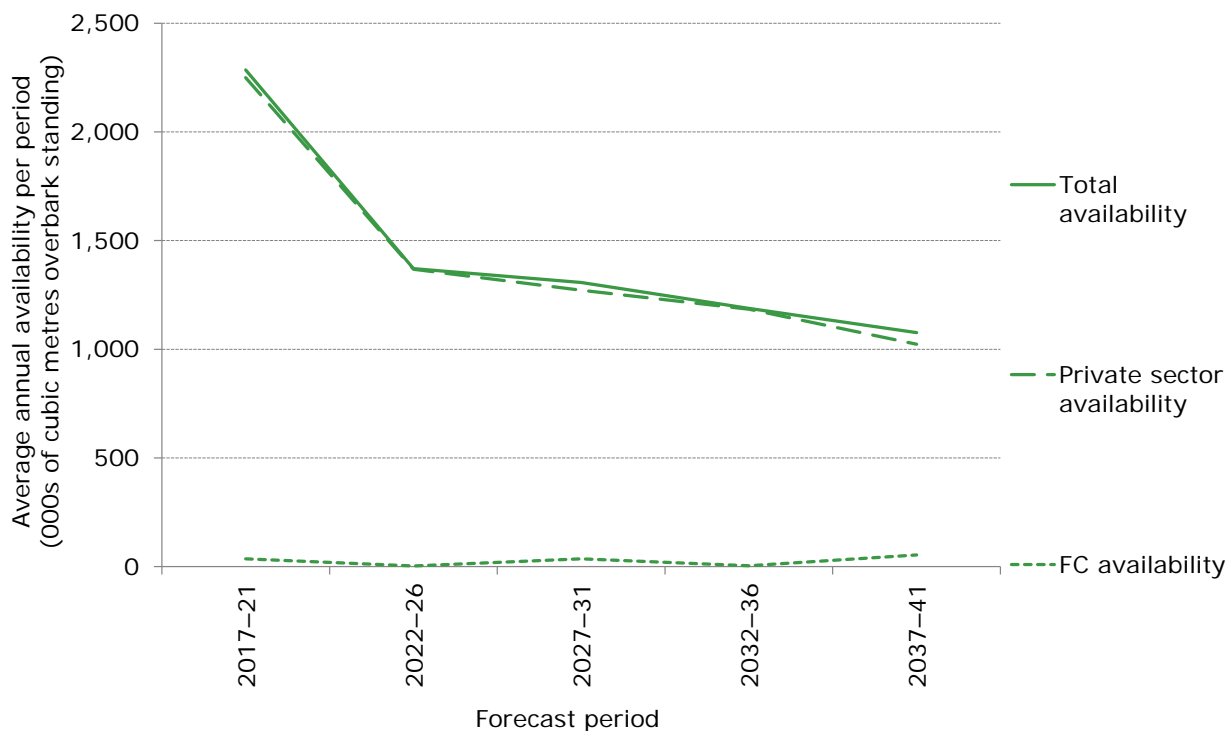


Figure 11 Overview of 25-year forecast of average annual hardwood availability



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Figure 12 25-year forecast of average annual softwood availability

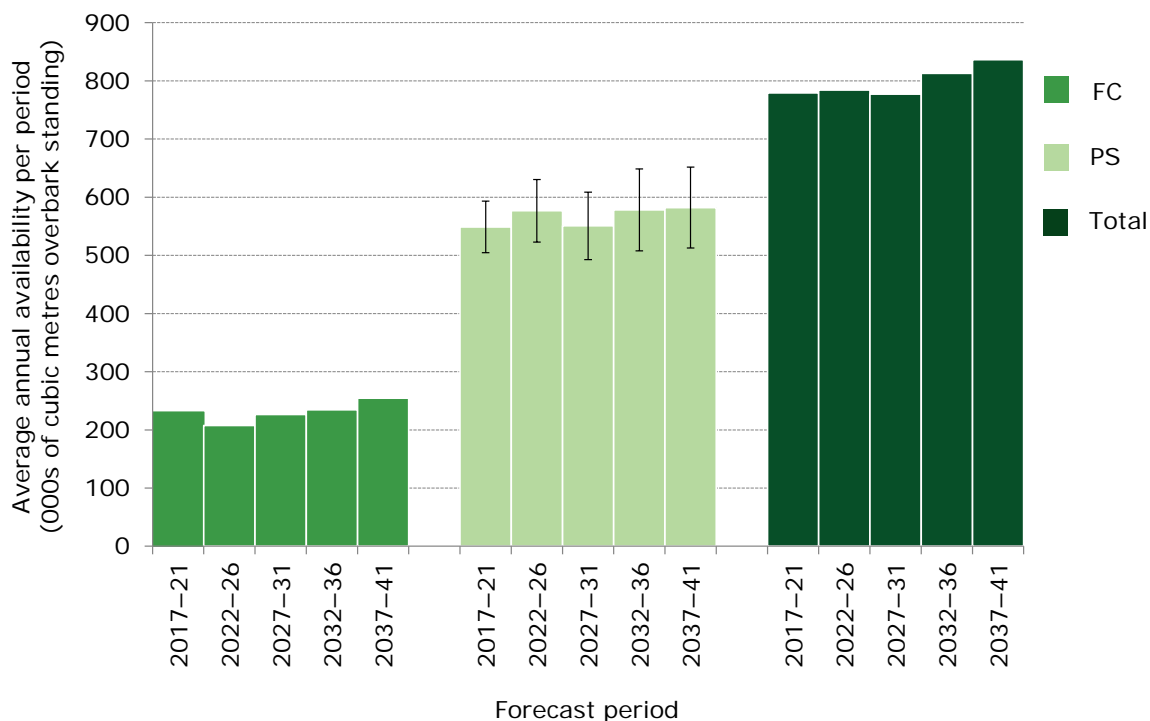
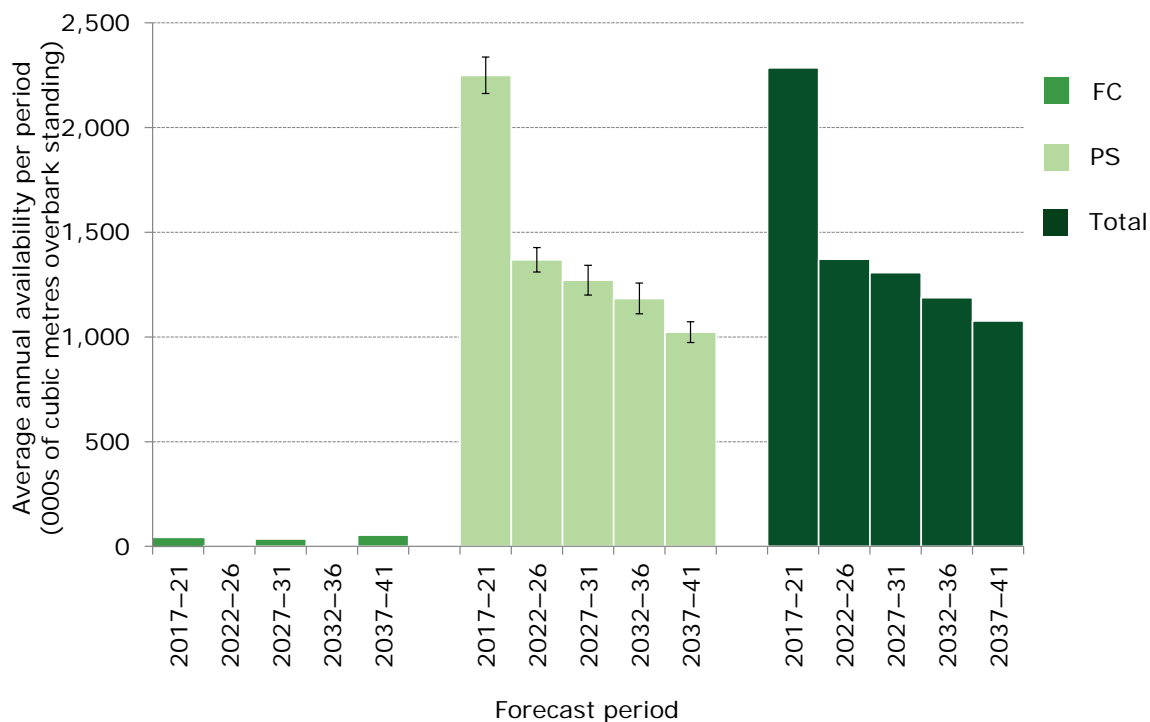


Figure 13 25-year forecast of average annual hardwood availability



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25-year forecast of biomass availability

Table 11 25-year forecast of biomass availability by period, top-product category and conifer or broadleaves

Product category	2017–21			2022–26			2027–31			2032–36			2037–41		
	FC	Private sector		FC	Private sector		FC	Private sector		FC	Private sector		FC	Private sector	
	(000 odt)	(000 odt)	SE%	(000 odt)	(000 odt)	SE%	(000 odt)	(000 odt)	SE%	(000 odt)	(000 odt)	SE%	(000 odt)	(000 odt)	SE%
All conifers															
stump	2.8	4.5	8	2.3	4.5	9	2.2	4.2	10	2.1	4.3	11	2.3	4.4	11
stem	89.1	212.4	8	80.6	223.2	9	88.1	211.7	11	91.1	220.6	12	99.0	226.8	12
tips	4.3	3.5	9	2.5	2.5	10	1.8	2.1	13	1.7	2.4	14	2.0	3.5	10
branches	19.1	40.9	8	15.8	42.9	9	16.4	42.7	11	16.5	45.4	12	17.9	45.2	12
Total	115.3	261.3	7	101.2	273.1	8	108.5	260.7	9	111.4	272.7	10	121.2	279.8	10

Product category	2017–21			2022–26			2027–31			2032–36			2037–41		
	FC	Private sector		FC	Private sector		FC	Private sector		FC	Private sector		FC	Private sector	
	(000 odt)	(000 odt)	SE%	(000 odt)	(000 odt)	SE%	(000 odt)	(000 odt)	SE%	(000 odt)	(000 odt)	SE%	(000 odt)	(000 odt)	SE%
All broadleaves															
stump	0.6	29.1	3	< 0.1	19.5	4	0.5	18.9	5	< 0.1	16.9	4	0.7	15.9	4
stem	18.9	1,111.5	4	1.4	681.5	4	18.7	649.7	6	1.9	595.9	6	28.4	520.0	5
tips	1.6	57.2	3	0.2	46.2	4	0.7	47.0	5	0.4	50.0	4	1.0	50.8	4
branches	5.3	284.1	4	0.4	178.5	4	4.8	167.8	5	0.8	152.7	6	7.1	131.2	5
Total	26.4	1,481.8	3	2.1	925.7	3	24.7	883.5	4	3.2	815.4	5	37.2	718.0	4

Note that the stump + stem above refer to the same part of the tree as the volume to 7cm.

NFI national reports and papers

The principal themes reported on for the 2011 woodland profile and future forecasts are:

- GB 2011 preliminary estimates of broadleaved species
- GB 2011 standing coniferous timber volume
- UK 25-year forecast of softwood availability
- GB 25-year forecast of coniferous standing volume and increment
- Biomass in live woodland trees in Britain
- Carbon in live woodland trees in Britain

The principal themes reported on for the 2012 woodland profile and future forecasts are:

- 50-year forecast of softwood timber availability
- 50-year forecast of hardwood timber availability
- 25-year forecast of softwood availability (2016) update

Each theme has a series of reports, papers and data, tailored for different audiences and uses. All the documents and data can be found on the NFI website

www.forestresearch.gov.uk/inventory.

Glossary

A glossary of terms is presented in the full suite of forecast reports which can be found at www.forestresearch.gov.uk/forecast.

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This report contains a subset of the information provided in the Official Statistics reports *50-year forecast of softwood timber availability* (2014) and *50-year forecast of hardwood timber availability* (2014) publications. More information about Official Statistics and the UK Statistics Authority is available at www.statisticsauthority.gov.uk

National Forest Inventory Statistician: David Ross